TEATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 18 August 2000 (18.08.00)	in its capacity as elected Office
International application No. PCT/US99/30491	Applicant's or agent's file reference 5940-01-EDS
International filing date (day/month/year) 21 December 1999 (21.12.99)	Priority date (day/month/year) 13 January 1999 (13.01.99)
Applicant TECLE, Haile et al	
The designated Office is hereby notified of its election made In the demand filed with the International Preliminary	
20 July 2000 (20	
in a notice effecting later election filed with the Interna	
 The election X was was not was not made before the expiration of 19 months from the priority da Rule 32.2(b). 	ite or, where Rule 32 applies, within the time limit under

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Henrik Nyberg

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY AUG 0 7 2000

To:	
WARNER-LAMBERT COMPANY Attn. RYAN, M. Andrea	RMSTRON©TIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT
201 Tabor Road	OR THE DECLARATION
Morris Plains, New Jersey 07950 UNITED STATES OF AMERICA	(PCT Rule 44.1)
	Date of mailing
	(day/month/year) 31/07/2000
Applicant's or agent's file reference	
5940-01-EDS	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/US 99/30491	(day/month/year) 21/12/1999
Applicant	
WARNER-LAMBERT COMPANY et al.	
with Exhibiting of the first of	
1. X The applicant is hereby notified that the International Search	Report has been established and is transmitted berowith
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	
When? The time limit for filing such amendments is norma International Search Report; however, for more de	lly 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35	
For more detailed instructions, see the notes on the accordance	mpanying sheet.
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has been applicant's request to forward the texts of both the protest.	n transmitted to the International Bureau together with the est and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the appl	icant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap	of withdrawal of the international application, or of the

nal Searching Authority 318 Patentlaan 2

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the

651 epo nt,

priority date or could not be elected because they are not bound by Chapter II.

Authorized officer

Chantal Meyer

completion of the technical preparations for international publication.

Express Mail No. EJ881683560US PD-5940-01-SMH

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report				
5940-01-EDS	ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US 99/30491	21/12/1999	13/01/1999			
Applicant					
	_				
WARNER-LAMBERT COMPANY et	al.				
This International Search Report has been according to Article 18. A copy is being tra	prepared by this International Searching Auth nsmitted to the International Bureau.	ority and is transmitted to the applicant			
This International Search Report consists of X It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.			
Basis of the report					
 With regard to the language, the in language in which it was filed, unle 	nternational search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the			
the international search wa Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	e international application furnished to this			
 b. With regard to any nucleotide and was carried out on the basis of the 	t/or amino acid sequence disclosed in the int sequence listing :	ernational application, the international search			
	nal application in written form.				
filed together with the inter	national application in computer readable form	ı.			
furnished subsequently to	this Authority in written form.				
	this Authority in computer readble form.				
the statement that the subs international application as	sequently furnished written sequence listing do filed has been furnished.	es not go beyond the disclosure in the			
the statement that the infor furnished	mation recorded in computer readable form is	identical to the written sequence listing has been			
2. X Certain claims were foun	d unsearchable (See Box I).				
3. Unity of invention is lack	ing (see Box II).				
4. With regard to the title,					
the text is approved as sub	mitted by the applicant.				
X the text has been establish ANTHRANILIC ACID DERIV	ed by this Authority to read as follows: ATIVES				
5. With report to the chatract					
5. With regard to the abstract, the text is approved as sub	mitted by the applicant				
the text has been established	ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may, ort, submit comments to this Authority:			
6. The figure of the drawings to be publis	hed with the abstract is Figure No.				
as suggested by the applica	ant.	None of the figures.			
because the applicant failed	33 3				
because this figure better c	haracterizes the invention.				

Box III TEXT OF THE ABORACT (Continuation of item 5 of the first sheet,

The invention features a compound having the formula (I) below:

$$R_{4} = \begin{pmatrix} W & O & P_{11} & P_{10} \\ P_{11} & P_{10} & P_{10} \\ P_{12} & P_{13} & P_{14} \\ P_{13} & P_{14} & P_{14} \\ P_{14} & P_{15} & P_{16} \\ P_{15} & P_{16} & P_{16} \\ P_{16} & P$$

The invention also relates to a pharmaceutical composition including (a) a compound of formula (I) and (b) a pharmaceutically-acceptable carrier

The invention further relates to a method for treating proliferative diseases, such as cancer, restenosis, psoriasis, autoimmune disease, and atherosclerosis. Other aspects of the invention include methods for treating MEK-related (including ras-related) cancers, whether solid or hematopoietic.

Form PCT/ISA/210 (continuation of first sheet (2)) (July 1998)

International Application No PCT/US 99/30491

A. CLASSIFICATION OF SUIPC 7 C07C323/50 C07C259/06

MATTER C07C317/36 A61K31/195

C07D233/61 A61K31/41

C07D285/10

C07C229/58

Relevant to claim No.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Category °

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C07D A61K

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Citation of document, with indication, where appropriate, of the relevant passages

CHEM ABS Data, BEILSTEIN Data, EPO-Internal

EP 0 316 630 A (WARNER-LAMBERT CO) 24 May 1989 (1989-05-24) page 8, lines 3-55; examples 13, 1 claims 1-4, 9, 14, 15, 17	17, 29-32, 35-40
Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but	" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention " document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone " document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. " document member of the same patent family Date of mailing of the international search report
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Van Amsterdam, L

C.(Continu	ation) DOCUMEN NSIDERED TO BE RELEVANT	101/03 99/30491
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1969:11330, XP002142609 abstract; RN 20885-73-8, 20885-75-0, 20885-79-4 -& CHEMICAL ABSTRACTS, vol. 70, no. 3, 20 January 1969 (1969-01-20) Columbus, Ohio, US; abstract no. 11330, XP002142605 abstract & JP 42 024578 B (TAKEDA CHEMICAL INDUSTRIES LTD) 25 November 1967 (1967-11-25)	1,2,4,6,8,17,29
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1972:121461, XP002142610 abstract; RN 13501-67-2, 16524-23-5, 27210-58-8, 35958-19-1 & N.A. MOKHORT: FARMAKOL. TOKSIKOL. (KIEV), no. 6, 1971, pages 108-111,	1-3,6,8, 9,15,16, 29
x	US 4 510 139 A (D.M. BAILEY) 9 April 1985 (1985-04-09) column 3, lines 24-21; examples 1, 3, 5, 7-14, 17, 19, 21, 24, 25, 27	1-3,6,8, 15,16, 18,29,30
x	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1968:418858, XP002142611 abstract; RN 19093-89-1 & JP 42 019583 B (TAKEDA CHEMICAL INDUSTRIES LTD) 25 November 1967 (1967-11-25)	1-3,8, 11,15, 16,29
	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1974:70488. XP002142612 abstract; RN 4974-76-9, 51679-41-5, 51679-42-6, 51679-46-0, 51679-50-6. 51679-53-9 & E.S. ENDELMAN ET AL: KHIMFARM. ZH., vol. 7, no. 12, 1973, pages 15-19, -/	1,3,8, 15,16,29

	NSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 242 559 A (HOECHST AG) 28 October 1987 (1987-10-28) page 3, compounds 1, 5, 9; claims 1, 2, 4-6	1-3,8,9, 15,16,29
X	US 2 502 451 A (A.A. GOLDBERG ET AL) 4 April 1950 (1950-04-04) column 2, lines 1-3, 13-17; column 3, lines 42-44; examples 2-4	1-3,8, 15,16,29
x	US 2 553 914 A (A.A. GOLDBERG) 22 May 1951 (1951-05-22) column 3, lines 12-17; examples 1-8, 10-13	1,3,8, 15,16,29
Ρ,Χ	WO 99 21840 A (WARNER LAMBERT CO) 6 May 1999 (1999-05-06) examples M, O, V	1-3,8, 15,16,22
X	DATABASE CROSSFIRE 'Online! BEILSTEIN INSTITUT FUER LITERATUR DER ORGANISCHEN CHEMIE; XP002142613 abstract; BRN 3350527	1-3,8, 12,15,16
x	US 2 082 171 A (F. MIETZSCH ET AL) 1 June 1937 (1937-06-01) page 2, column 2, lines 19-22; page 3, column 1, lines 7-10, 66-69	1-3,8,9, 15,16
X	US 3 781 358 A (E.L. ANDERSON ET AL) 25 December 1973 (1973-12-25) column 3, lines 69-70; column 4, lines 30-31; column 6, lines 24-25, 51-52; column 7, lines 19-20, 44-45	1-3,8,9, 15,16
	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAOLD accession no. 8753f, XP002142614 RN 798-84-5 -& CHEMICAL ABSTRACTS, vol. 59, no. 8, 14 October 1963 (1963-10-14) Columbus, Ohio, US; abstract no. 8753f, XP002142606 abstract & F. HUNZIKER ET AL: ARZNEIMITTEL-FORSCH., vol. 13, 1963, pages 324-328,	1,3,8,9, 15,16

C.(Continu	nation) DOCUMEN NSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1969:403368, XP002142615 abstract; RN 22777-13-5, 22777-15-7 & M. TAKEDA ET AL: YAKUGAKU ZASSHI, vol. 89, no. 2, 1969, pages 158-163,	1-3,8, 15,16
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAOLD accession no. 35:7965h, XP002142616 RN 2925-86-2, 2925-87-3 abstract -& CHEMICAL ABSTRACTS, vol. 35, no. 22, 20 November 1941 (1941-11-20) Columbus, Ohio, US; abstract no. 7965h, XP002142607 abstract & V.O. YU ET AL: J. GEN. CHEM. USSR, vol. 11, 1941, pages 243-253,	1-3,6,8, 15,16, 19,22
X	CHEMICAL ABSTRACTS, vol. 38, no. 1, 10 January 1944 (1944-01-10) Columbus, Ohio, US; abstract no. 105, XP002142608 abstract no 105, 7-9 & A.H. COOK ET AL: J. CHEM. SOC., 1943, pages 417-419,	1,3,8, 15,16
(DE 21 55 106 A (CIBA-GEIGY AG) 10 May 1972 (1972-05-10) page 4, line 10; examples 1-2; claims 1-3	1,3,8, 15,16
	WO 98 37881 A (WARNER LAMBERT CO) 3 September 1998 (1998-09-03) claims; examples	1,29,45

INTE FIONAL SEARCH REPORT

Box I Observations where certain claims were found uns archable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 30-50 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

Information on patent family members

				_		01,00 33,	30431
	atent documen d in search report		Publication date		ratent lemember(s)		Publication date
EP	316630	A	24-05-1989	US AU	5155110 2909289	A	13-10-1992 23-05-1989
					8903818		05-05-1989
				ZA	8807696	Α	27-06-1990
US	4510139	A	09-04-1985				22-10-1985
JP	42019583	В		NONE			
EP	242559	Α	28-10-1987	DE	3608726		17-09-1987
				DK	131187		16-09-1987
				JP			29-09-1987
				PT	84457	A,B	01-04-1987
				U\$ 	4921875 	A 	01-05-1990
US	2502451	Α	04-04-1950	FR	930361	Α	28-01-1948
				GB	608492	Α	
				NL 	62219 	C	
US	2553914	Α	22-05-1951	NONE			
WO	9921840	Α	06-05-1999	AU	9503998	A	17-05-1999
				ZA ————	9809783	Α	28-04-1999
US	2082171	A	01-06-1937	NONE			
US	3781358	A	25-12-1973	US US	3692834		19-09-1972
							11-11-1975
					1202138		12-08-1970
				US 	3625945 	A 	07-12-1971
DE	2155106	Α	10-05-1972	BE	774961 967151	Α	05-05-1972
			errowe.	011	30,101		06-05-1975
				CH	541608		31-10-1973
				ES	396691		01-01-1975
					2113616		23-06-1972
				GB	1371378		23-10-1974
				IT	946042 7115291	. B	21-05-1973
				NL 	/115291 	A 	09-05-1972
WΟ	9837881	Α	03-09-1998		5610398		18-09-1998
				ZA	9801578		02-09-1998

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

4

Name and mailing address of the IPEA/

Authorized officer

European Patent Office D-80298 Munich

Roche, S

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Tel.+49 89 2399-8031

Fax: +49 89 2399 - 4465 Tel.+49





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's 5940-01-		ent's file reference	FOR FURTHER ACT	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
Internation	al appl	Ication No.	International filing date (da	(day/month/year) Priority date (day/month/year)				
PCT/US	99/30	491	21/12/1999		13/01/1999			
	international Patent Classification (IPC) or national classification and IPC C07C323/00							
Applicant								
WARNE	WARNER-LAMBERT COMPANY et al.							
	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This i	REPC	PRT consists of a total of	10 sheets, including this	cover sheet.				
b	een a		is for this report and/or s	heets containing re	n, claims and/or drawings which have ctifications made before this Authority e PCT).			
These	ann	exes consist of a total of	sheets.					
3. This r	eport	contains indications rela	ting to the following items	3:				
1	×	Basis of the report						
11		Priority						
111	X	Non-establishment of o	pinion with regard to nove	elty, inventive step	and industrial applicability			
IV		Lack of unity of invention	n					
V	×		nder Article 35(2) with reg ons suporting such statem		entive step or industrial applicability;			
VI		Certain documents cite	d					
VII	×	Certain defects in the in	ternational application		•			
VIII	VIII Certain observations on the international application							
Date of sub	missic	n of the demand	1	Date of completion of	this report			
20/07/200	00			29.03.2001				
	exami	address of the international ning authority:		Authorized officer				
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d				Bedel, C				
Fax: +49 89 2399 - 4465			1	Telephone No. +49 89	2399 2506			

International application No. PCT/US99/30491

I. Basis of the report

1.	res the	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages:								
	1-4	2	as originally filed							
	Cla	lims, No.:								
	1-5	0	as originally filed							
2.			puage, all the elements marked above were available or fumished to this Authority in the international application was filed, unless otherwise indicated under this item.							
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:							
	_ _ _	the language of pu	translation furnished for the purposes of the international search (under Rule 23.1(b)). Iblication of the international application (under Rule 48.3(b)). Itranslation furnished for the purposes of international preliminary examination (under Rule							
3.			leotide and/or amino acid sequence disclosed in the international application, the yexamination was carried out on the basis of the sequence listing:							
		contained in the in	ternational application in written form.							
		filed together with	the international application in computer readable form.							
		furnished subsequ	ently to this Authority in written form.							
		furnished subsequ	ently to this Authority in computer readable form.							
			t the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.							
		The statement that listing has been full	t the information recorded in computer readable form is identical to the written sequence mished.							
4.	The	amendments have	resulted in the cancellation of:							
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							
5.			en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):							

International application No. PCT/US99/30491

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.) 6. Additional observations, if necessary: III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability 1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be nonobvious), or to be industrially applicable have not been examined in respect of: ☐ the entire international application. ☑ claims Nos. 30-50. because: Mean the said international application, or the said claims Nos. 30-50 relate to the following subject matter which does not require an international preliminary examination (specify): see separate sheet the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify): ☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed. no international search report has been established for the said claims Nos. . 2. A meaningful international preliminary examination report cannot be carried out due to the failure of the nucleotid and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: ☐ the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard. V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Yes: Claims 5.7.10.13-14.20-21,30-50 Claims 1-4,6,8,9,11,12,15-19,22,29 No: Yes: Claims Inventive step (IS) Claims 1-50 No: Claims 1-29 Industrial applicability (IA) Yes:

International application No. PCT/US99/30491

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

R It mill

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 30-50 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

For the assessment of the present claims 30-50 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Reference is made to the following documents:

- D1: EP-A-0 316 630 (WARNER-LAMBERT CO) 24 May 1989 (1989-05-24)
- D2: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1969:11330, XP002142609 -& CHEMICAL ABSTRACTS, vol. 70, no. 3, 20 January 1969 (1969-01-20) Columbus, Ohio, US; abstract no. 11330, XP002142605 & JP 42 024578 B (TAKEDA CHEMICAL INDUSTRIES LTD) 25 November 1967 (1967-11-25)
- D3: US-A-4 510 139 (D.M. BAILEY) 9 April 1985 (1985-04-09)
- D4: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1968:418858, XP002142611 & JP 42 019583 B (TAKEDA CHEMICAL INDUSTRIES LTD) 25 November 1967 (1967-11-25)
- D5: EP-A-0 242 559 (HOECHST AG) 28 October 1987 (1987-10-28)
- D6: US-A-2 502 451 (A.A. GOLDBERG ET AL) 4 April 1950 (1950-04-04)



D8: WO 99 21840 A (WARNER LAMBERT CO) 6 May 1999 (1999-05-06)

D9: US-A-2 082 171 (F. MIETZSCH ET AL) 1 June 1937 (1937-06-01)

US-A-3 781 358 (E.L. ANDERSON ET AL) 25 December 1973 (1973-D10: 12-25)

DE 21 55 106 A (CIBA-GEIGY AG) 10 May 1972 (1972-05-10) D11:

D12: WO 98 37881 A (WARNER LAMBERT CO) 3 September 1998 (1998-09-03)

D13: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1972:121461, XP002142610 & N.A. MOKHORT: FARMAKOL. TOKSIKOL. (KIEV), no. 6, 1971, pages 108-111,

D14: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1974:70488, XP002142612 & E.S. ENDELMAN ET AL: KHIM.-FARM. ZH., vol. 7, no. 12, 1973, pages 15-19,

D15: DATABASE CROSSFIRE [Online] BEILSTEIN INSTITUT FUER LITERATUR DER ORGANISCHEN CHEMIE; XP002142613

D16: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAOLD accession no. 8753f, XP002142614 -& CHEMICAL ABSTRACTS, vol. 59, no. 8, 14 October 1963 (1963-10-14) Columbus, Ohio, US; abstract no. 8753f, XP002142606 & F. HUNZIKER ET AL: ARZNEIMITTEL-FORSCH., vol. 13, 1963, pages 324-328,

D17: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1969:403368, XP002142615 & M. TAKEDA ET AL: YAKUGAKU ZASSHI, vol. 89, no. 2, 1969, pages 158-163,

D18: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAOLD accession no. 35:7965h, XP002142616 -& CHEMICAL ABSTRACTS, vol. 35, no. 22, 20 November 1941 (1941-11-20) Columbus, Ohio, US; abstract no. 7965h, XP002142607 & V.O. YU ET AL: J. GEN. CHEM. USSR, vol. 11, 1941, pages 243-253,

CHEMICAL ABSTRACTS, vol. 38, no. 1, 10 January 1944 (1944-01-D19:

10) Columbus, Ohio, US; abstract no. 105, XP002142608 & A.H. COOK ET AL: J. CHEM. SOC., 1943, pages 417-419,

1. Novelty

The subject-matter of claims 1-4, 6, 8, 9, 11, 12, 15-19, 22, 29 does not comply with the requirements of Article 33(2) PCT for the following reasons:

- Document D1 in examples 13, 18, in claim 9 (10th and 14th compound) and claims 1-4 and 14 (overlapping domains) discloses compounds or group of compounds which anticipate the subject-matter of claims 1,2,4,8,17 and 29.
- Document D2 discloses 2 hydroxamic acid derivatives (R= p-ethoxyphenyl and 4methylphenyl) which fall within the scope of claims 1,2,4,6,8,17 and 29.
- Document D3 describes 3 benzoic acid derivatives (groups OCH₃, CH₃ and SCH₃ in para position, corresponding to J in the present application) which anticipate the subject-matter of claims 1-3,6,8,9,15,16 and 29.
- Document D4 in examples 1,3,5,7-14,17,19,21,24,25,27 and column 3, lines 24-31 (pharmaceutical) describes a series of compounds which anticipate the subject-matter of claims 1-3,6,8,15,16,18-29.
- Document D5 discloses a benzoic acid derivative comprising a 4-methylsulfonyl group (equivalent to J group in application), thus anticipating the subject-matter of claims 1-3,8,11,15,16,29.
- Document D6 discloses a benzoic acid derivative with a 4-trifluoromethyl sulfonyl group, which destroys the novelty of claims 1,3,8,15,16 and 29.
- Document D7 at page 3, discloses compounds 1,5 and 9 and in claims 1,2, 4-6 which overlap with the subject-matter of claims 1-3,8,9,15,16,29.
- Document D8 at column 2, lines 1-3 and 13-17 (see also examples 2-4) discloses compounds which anticipate the subject-matter of claims 1-3,8,15,16 and 29 (see col.3, l.42-44).

EXAMINATION REPORT - SEPARATE SHEET

- Document D9 in examples 1-8 and 12-14 discloses compounds which anticipat the subject-matter of claims 1,3,8,15,16, these compounds being used as pharmaceuticals (col.3, I.12-14), the subject-matter of claim 29 is anticipated as well.
- Document D11 discloses a compound which anticipates the subject-matter of claims 1-3,8,12,15 and 16.
- Document D12 at page 2, column 2, lines 19-20 and page 3, column 1, lines 7,8 and lines 65,66 discloses compounds which destroy the novelty of claims 1-3,8,9,15 and 16.
- Document D13 in examples 2 (line 70), 3 (lines 30, 31), 9 (lines 24, 25), 10 (lines 51,52), 12 (lines 19, 29) and 13 (lines 44, 45) discloses compounds which anticipate the subject-matter of claims 1-3,8,9,15 and 16.
- Document D14 discloses a series of compounds of formula (I) (see 8753 f-g and 8754 a) which destroy the novelty of claims 1,3,8,9,15,16.
- Document D15 discloses a compound of Formula (I) which anticipates the subject-matter of claims 1-3,8,15,16.
- Document D16 discloses a compound which falls within the scope of claims 1-3,6,8,15,16,19 and 22.
- Document D17 discloses a compound of formula (I) (see 105-7) which anticipates the subject-matter of claims 1,3,8,15,16.
- Document D18 at page 4, line 10, in example 1, line 8,9 and example 2 (see * formula) discloses compounds (and domain of compounds see claims 1,2) which anticipate the subject-matter of claims 1,3,8,15,16.

2. Inventive step

Furthermore, the subject-matter of claims 1-50 cannot be considered as inventive

for the following reasons:

D19 can be considered as the closest prior art as it discloses compounds which shows MEK enzyme inhibition, these compounds differing by the fact that the para group of the phenylamine moiety is Br or I in D19 while it is a "J" group as defined in claim 1 of the present application.

The technical problem can be considered as providing alternative compounds which show some inhibition properties on MEK enzyme which is known to be involved in immunomodulation, inflammation and proliferative diseases (see application page 1, line 9).

This technical problem has been solved by the compounds of formula (I) wherein the Br or I group have been replaced by a "J" group.

However, compounds comprising such a "J" group have been already disclosed and exhibit some antiinflammation (see D2-D6) or antiproliferative properties (see D4, column 13, line 4). Although these documents do not explicitly refer to a specific inhibition of MEK enzyme by these compounds (probably because the mechanism of action of these drugs was not fully known at that time), their pharmacologic properties represent a sufficient hint for a skilled person wishing to develop alternative compounds to the one of D19 in the hope of getting MEK enzyme inhibitors and consequently antiproliferative or antiinflammatory compounds.

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D19 is not mentioned in the description, nor is this document identified therein.

Re Item VIII

Certain observations on the international application

The re is a discrepancy between independant claim 1 and claims 23,24 and 28

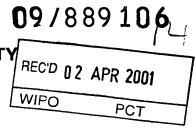
EXAMINATION REPORT - SEPARATE SHEET

wherein several compounds of formula I (see claim 1) with $R_5 = NO_2$ are claimed, although NO_2 is not mentioned in the definition for R_5 as given in claim 1. This discrepancy renders the scope of claim 1 unclear, contrary to Article 6 PCT.

- 2. Claim 4 is not supported by the description since the corresponding passage in the description stipulates that W = NHOR₁ which is of a larger scope than the subject-matter of claim 4 (NHOH), contrary to Article 6 PCT.
- 3. There is another discrepancy between the description page 8 line 9 ("C3-8 alkynyl") and claim 13 ("C2-8 alkynyl"), which leads to a lack of clarity for the subject-matter of the said claim. Another discrepancy of the same kind has been detected: "C3-4 alkynyl" in the description (p.8, l.16) compared to claim 18 "C2-4 alkynyl".
- 4. Furthermore, claim 21 defines " R_4 and R_5 = F and R = Br" while the corresponding passage in the description reads " R_5 and R_6 is F and R_6 is Br" (see page 8 line 20). A similar mistake appears again on page 8, line 20-21 "each R_5 and R_6 is F and R_6 is H".
- 5. The embodiment of claim 22 wherein R₅ is F does not seem to be supported by the description (Article 6 PCT).
- 6. This holds true for the lists of compounds of claims 24, 25 and 27 (lack of support, Article 6 PCT).
- 7. The vague and imprecise statement in the description on page 22 (chapter F) implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them (see also the PCT Guidelines, III-4.3a).

PATENT COOPERATION T





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

• •		nt's file reference	FOR FURTHER ACTIO		fication of Transmittal of International ary Examination Report (Form PCT/IPEA/416)
5940-01-	EDS				<u> </u>
Internationa			International filing date (day/m	onth/year)	Priority date (day/month/year)
PCT/US9	9/30	491 	21/12/1999		13/01/1999
Internationa C07C323		nt Classification (IPC) or na	tional classification and IPC		
Applicant					
WARNER	R-LAI	MBERT COMPANY et	al.		·
1. This in and is	nterna trans	ational preliminary exam smitted to the applicant a	ination report has been prep according to Article 36.	ared by this Ir	nternational Preliminary Examining Authority
2. This F	REPO	PRT consists of a total of	10 sheets, including this co	ver sheet.	
be (s	een a see R	mended and are the bas	sis for this report and/or shee 07 of the Administrative Instr	ts containing	tion, claims and/or drawings which have rectifications made before this Authority the PCT).
3. This r	eport	contains indications rela	ating to the following items:		
		Basis of the report			
II		•			
111		•	poinion with regard to novelty	, inventive ste	ep and industrial applicability
IV	. \Box			•	
V	Ø	Reasoned statement u		d to novelty, ir nt	nventive step or industrial applicability;
VI		Certain documents cit	ed		
VII	\boxtimes	Certain defects in the i	nternational application		
VIII	×	Certain observations o	n the international applicatio	n	
Date of sub	missi	on of the demand	Da	te of completion	of this report
20/07/20	00		29.	03.2001	
Name and	mailin	g address of the internation	al Au	horized officer	ASOES MICH
preliminary	Eur D-8	Jining authority: opean Patent Office 0298 Munich +49 89 2399 - 0 Tx: 52365		edel, C	
Fax: +49 89 2399 - 4465				enhone No. ±49	9 89 2399 2506



ı.	Bas	Basis of th r p rt							
1.	resp the	s report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in ponse to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to report since they do not contain amendments (Rules 70.16 and 70.17).): scription, pages:							
	1-42	2	as originally filed						
Claims, No.:									
	1-50)	as originally filed						
2.	lang	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.							
	These elements were available or furnished to this Authority in the following language: , which is:								
		the language of a t	translation furnished for the purposes of the international search (under Rule 23.1(b)).						
	the language of publication of the international application (under Rule 48.3(b)).								
		the language of a t 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule						
3.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:								
		contained in the international application in written form.							
		furnished subsequ	ently to this Authority in computer readable form.						
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
		☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
4.	. The amendments have resulted in the cancellation of:								
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):							

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6.	Addi	Additional observations, if necessary:							
H.	Non	n-establishment of opini	on with	regard t	to novelty, inventive step and industrial applicability				
1.	The obvi	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-bylious), or to be industrially applicable have not been examined in respect of:							
		the entire international a							
	×	claims Nos. 30-50.							
pecause:									
	⊠	the said international application, or the said claims Nos. 30-50 relate to the following subject matter which does not require an international preliminary examination (<i>specify</i>): see separate sheet							
		the description, claims or drawings (<i>indicate particular elements below</i>) or said claims Nos. are so unclear that no meaningful opinion could be formed (<i>specify</i>):							
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.							
		no international search r	eport ha	as been e	established for the said claims Nos				
2.	and	meaningful international preliminary examination report cannot be carried out due to the failure of the nucleotide nd/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative structions:							
		the written form has not	or does not comply with the standard.						
		the computer readable form has not been furnished or does not comply with the standard.							
V.		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Stat	tement							
	Nov	velty (N)	Yes: No:		5,7,10,13-14,20-21,30-50 1-4,6,8,9,11,12,15-19,22,29				
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-50				
	Indi	ustrial applicability (IA)	Yes:	Claims	1-29				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/30491

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

R it mill

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 30-50 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

For the assessment of the present claims 30-50 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive st p or industrial applicability; citations and explanations supporting such statem int Reference is made to the following documents:

- D1: EP-A-0 316 630 (WARNER-LAMBERT CO) 24 May 1989 (1989-05-24)
- D2: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1969:11330, XP002142609 -& CHEMICAL ABSTRACTS, vol. 70, no. 3, 20 January 1969 (1969-01-20) Columbus, Ohio, US; abstract no. 11330, XP002142605 & JP 42 024578 B (TAKEDA CHEMICAL INDUSTRIES LTD) 25 November 1967 (1967-11-25)
- D3: US-A-4 510 139 (D.M. BAILEY) 9 April 1985 (1985-04-09)
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- D5: EP-A-0 242 559 (HOECHST AG) 28 October 1987 (1987-10-28)
- D6: US-A-2 502 451 (A.A. GOLDBERG ET AL) 4 April 1950 (1950-04-04)

- **EXAMINATION REPORT SEPARATE SHEET**
 - D7: US-A-2 553 914 (A.A. GOLDBERG) 22 May 1951 (1951-05-22)
 - D8: WO 99 21840 A (WARNER LAMBERT CO) 6 May 1999 (1999-05-06)
 - D9: US-A-2 082 171 (F. MIETZSCH ET AL) 1 June 1937 (1937-06-01)
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 - DATABASE CROSSFIRE [Online] BEILSTEIN INSTITUT FUER D15: LITERATUR DER ORGANISCHEN CHEMIE; XP002142613
 - DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, D16: COLUMBUS, OHIO, US; STN, CAOLD accession no. 8753f, XP002142614 -& CHEMICAL ABSTRACTS, vol. 59, no. 8, 14 October 1963 (1963-10-14) Columbus, Ohio, US; abstract no. 8753f, XP002142606 & F. HUNZIKER ET AL: ARZNEIMITTEL-FORSCH., vol. 13, 1963, pages 324-328,
 - DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, D17: COLUMBUS, OHIO, US; STN, CAPLUS accession no. 1969:403368, XP002142615 & M. TAKEDA ET AL: YAKUGAKU ZASSHI, vol. 89, no. 2, 1969, pages 158-163,
 - DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, D18: COLUMBUS, OHIO, US; STN, CAOLD accession no. 35:7965h, XP002142616 -& CHEMICAL ABSTRACTS, vol. 35, no. 22, 20 November 1941 (1941-11-20) Columbus, Ohio, US; abstract no. 7965h, XP002142607 & V.O. YU ET AL: J. GEN. CHEM. USSR, vol. 11, 1941, pages 243-253,
 - CHEMICAL ABSTRACTS, vol. 38, no. 1, 10 January 1944 (1944-01-D19:

10) Columbus, Ohio, US; abstract no. 105, XP002142608 & A.H. COOK ET AL: J. CHEM. SOC., 1943, pages 417-419,

1. Novelty

The subject-matter of claims 1-4, 6, 8, 9, 11, 12, 15-19, 22, 29 does not comply with the requirements of Article 33(2) PCT for the following reasons:

- Document D1 in examples 13, 18, in claim 9 (10th and 14th compound) and claims 1-4 and 14 (overlapping domains) discloses compounds or group of compounds which anticipate the subject-matter of claims 1,2,4,8,17 and 29.
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well.

- Document D9 in examples 1-8 and 12-14 discloses compounds which anticipate the subject-matter of claims 1,3,8,15,16, these compounds being used as pharmaceuticals (col.3, l.12-14), the subject-matter of claim 29 is anticipated as
- Document D11 discloses a compound which anticipates the subject-matter of claims 1-3,8,12,15 and 16.
- Document D12 at page 2, column 2, lines 19-20 and page 3, column 1, lines 7,8 and lines 65,66 discloses compounds which destroy the novelty of claims 1-3,8,9,15 and 16.
- Document D13 in examples 2 (line 70), 3 (lines 30, 31), 9 (lines 24, 25), 10 (lines 51,52), 12 (lines 19, 29) and 13 (lines 44, 45) discloses compounds which anticipate the subject-matter of claims 1-3,8,9,15 and 16.
- Document D14 discloses a series of compounds of formula (I) (see 8753 f-g and 8754 a) which destroy the novelty of claims 1,3,8,9,15,16.
- Document D15 discloses a compound of Formula (I) which anticipates the subject-matter of claims 1-3,8,15,16.
- Document D16 discloses a compound which falls within the scope of claims 1-* 3,6,8,15,16,19 and 22.
- Document D17 discloses a compound of formula (I) (see 105-7) which anticipates the subject-matter of claims 1,3,8,15,16.
- Document D18 at page 4, line 10, in example 1, line 8,9 and example 2 (see formula) discloses compounds (and domain of compounds see claims 1,2) which anticipate the subject-matter of claims 1,3,8,15,16.

2. Inv ntiv st p

Furthermore, the subject-matter of claims 1-50 cannot be considered as inventive

for the following reasons:

D19 can be considered as the closest prior art as it discloses compounds which shows MEK enzyme inhibition, these compounds differing by the fact that the para group of the phenylamine moiety is Br or I in D19 while it is a "J" group as defined in claim 1 of the present application.

The technical problem can be considered as providing alternative compounds which show some inhibition properties on MEK enzyme which is known to be involved in immunomodulation, inflammation and proliferative diseases (see application page 1, line 9).

This technical problem has been solved by the compounds of formula (I) wherein the Br or I group have been replaced by a "J" group.

However, compounds comprising such a "J" group have been already disclosed and exhibit some antiinflammation (see D2-D6) or antiproliferative properties (see D4, column 13, line 4). Although these documents do not explicitly refer to a specific inhibition of MEK enzyme by these compounds (probably because the mechanism of action of these drugs was not fully known at that time), their pharmacologic properties represent a sufficient hint for a skilled person wishing to develop alternative compounds to the one of D19 in the hope of getting MEK enzyme inhibitors and consequently antiproliferative or antiinflammatory compounds.

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D19 is not mentioned in the description, nor is this document identified therein.

Re Item VIII

C rtain obs rvations on the international application

There is a discrepancy between independant claim 1 and claims 23,24 and 28 1.

wherein several compounds of formula I (see claim 1) with $R_5 = NO_2$ are claimed, although NO₂ is not mentioned in the definition for R₅ as given in claim 1. This discrepancy renders the scope of claim 1 unclear, contrary to Article 6 PCT.

- Claim 4 is not supported by the description since the corresponding passage in 2. the description stipulates that W = NHOR1 which is of a larger scope than the subject-matter of claim 4 (NHOH), contrary to Article 6 PCT.
- There is another discrepancy between the description page 8 line 9 ("C3-8 3. alkynyl") and claim 13 ("C2-8 alkynyl"), which leads to a lack of clarity for the subject-matter of the said claim. Another discrepancy of the same kind has been detected: "C3-4 alkynyl" in the description (p.8, I.16) compared to claim 18 "C2-4 alkynyl".
- Furthermore, claim 21 defines ${}^{\text{"R}}_4$ and ${}^{\text{R}}_5$ = F and R = Br ${}^{\text{"}}$ while the corresponding 4. passage in the description reads " $R_{\scriptscriptstyle 5}$ and $R_{\scriptscriptstyle 6}$ is F and $R_{\scriptscriptstyle 6}$ is Br" (see page 8 line 20). A similar mistake appears again on page 8, line 20-21 "each $R_{\scriptscriptstyle 5}$ and $R_{\scriptscriptstyle 6}$ is F and R_6 is H".
- The embodiment of claim 22 wherein R₅ is F does not seem to be supported by 5. the description (Article 6 PCT).
- This holds true for the lists of compounds of claims 24, 25 and 27 (lack of support, 6. Article 6 PCT).
- The vague and imprecise statement in the description on page 22 (chapter F) 7. implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them (see also the PCT Guidelines, III-4.3a).